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1 Pinnacles of software engineering: 25 years of formal methods
Dines Bjorner
January 2000 **Annals of Software Engineering** , Volume 10 Issue 1-4
Publisher: J. C. Baltzer AG, Science Publishers
Full text available: Publisher Site
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

In this invited paper we review 25 years of propagating formal specification in software engineering. We will d through outlining a paradigmatic approach to the practice of software engineering. For the sake of contrasting argument we

2 Alloy: a lightweight object modelling notation
Daniel Jackson
April 2002 **Transactions on Software Engineering and Methodology (TOSEM)** , Volume 11 Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (346.87 KB)
Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 277, Downloads (Overall): 1973, Citation Cour

Alloy is a little language for describing structural properties. It offers a declaration syntax compatible with graj object models, and a set-based formula syntax powerful enough to express complex constraints and yet amer to a fully automatic ...

Keywords: Object models, Z specification language, first-order logic

3 The design and analysis of real-time systems using the ASTRAL software development environment
Paul Z. Kolano, Zhe Dang, Richard A. Kemmerer
June 1999 **Annals of Software Engineering** , Volume 7 Issue 1-4
Publisher: J. C. Baltzer AG, Science Publishers
Full text available: Publisher Site
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

ASTRAL is a formal specification language for real‐time systems. It is intended to support formal softwa development and, therefore, has been formally defined. The structuring mechanisms in ASTRAL allow one to b modularized specifications ...

4 Agent-Based System Design for B2B Electronic Commerce
Anthony Karageorgos, Simon Thompson, Nikolay Mehandjiev
October 2002 **International Journal of Electronic Commerce** , Volume 7 Issue 1
Publisher: M. E. Sharpe, Inc.
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Agent-based systems are increasingly used to support business-to-business (B2B) electronic commerce and ol Internet-based transactions. The design complexity resulting from the multiple interconnected systems in thes domains has to be managed

Keywords: Agent Organizations, Agent-Based E-Business, Agent-Oriented, Software Engineering

5 Instruction-level reverse execution for debugging
Tankut Akgul, Vincent J. Mooney, III
January 2003 **PASTE '02:** Proceedings of the 2002 ACM SIGPLAN-SIGSOFT workshop on Program analysis for so tools and engineering
Publisher: ACM Request Permissions

Full text available: Pdf (241 83 KB)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 23, Downloads (Overall): 270, Citation Count: 6

The ability to execute a program in reverse is advantageous for shortening debug time. This paper presents a reverse execution methodology at the assembly instruction-level with low memory and time overheads. The c idea of this approach is to generate ...

Keywords: debugging, reverse code generation, reverse execution

Also published in:

January 2003 **SIGSOFT Software Engineering Notes** Volume 28 Issue 1

6 Forms/3: A first-order visual language to explore the boundaries of the spreadsheet paradigm

Margaret Burnett, John Atwood, Rebeca Walpole Djang, James Reichwein, Herkimer Gottfried, Sherry Yang

March 2001 **Journal of Functional Programming**, Volume 11 Issue 2

Publisher: Cambridge University Press

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Although detractors of functional programming sometimes claim that functional programming is too difficult or counter-intuitive for most programmers to understand and use, evidence to the contrary can be found by look the popularity of spreadsheets. ...

7 Knowledge entry as the graphical assembly of components

Peter Clark, John Thompson, Ken Barker, Bruce Porter, Vinay Chaudhri, Andres Rodriguez, Jerome Thomere, Sun Mishra, Yolanda Gil, Pat Hayes, Thomas Reichherzer

October 2001 **K-CAP '01:** Proceedings of the 1st international conference on Knowledge capture

Publisher: ACM Request Permissions

Full text available: Pdf (137.83 KB)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 10, Downloads (Overall): 363, Citation Count: 2

Despite some successes, the lack of tools to allow subject matter experts to directly enter, query, and debug f domain knowledge in a knowledge-base still remains a major obstacle to their deployment. Our goal is to crea such tools, so that a ...

Keywords: components, composition, graphical knowledge entry, knowledge acquisition, knowledge-based systems

8 Uniform comparison of data models using containment modeling

E. James Whitehead, Jr.

June 2002 **HYPERTEXT '02:** Proceedings of the thirteenth ACM conference on Hypertext and hypermedia

Publisher: ACM Request Permissions

Full text available: Pdf (300.56 KB)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 16, Downloads (Overall): 552, Citation Count: 1

Containment data models are a subset of entity relationship models in which the allowed relationships are eith type of containment, storage, or inheritance. This paper describes containment relationships, and containment models, applying them ...

Keywords: containment data modeling, hypertext data models

9 Natural-language retrieval of images based on descriptive captions

Eugene J. Guglielmo, Neil C. Rowe

July 1996 **Transactions on Information Systems (TOIS)**, Volume 14 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (572.05 KB)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 45, Downloads (Overall): 615, Citation Count: 1

We describe a prototype intelligent information retrieval system that uses natural-language understanding to efficiently locate captioned data. Multimedia data generally require captions to explain their features and significance. Such descriptive captions ...

Keywords: captions, multimedia database, type hierarchy

10 Automatic Detection of Human Nudes

D. A. Forsyth, M. M. Fleck
August 1999 **International Journal of Computer Vision** , Volume 32 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Bibliometrics: Downloads (6 Weeks) n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

This paper demonstrates an automatic system for telling whether there are human nudes present in an image system marks skin-like pixels using combined color and texture properties. These skin regions are then fed to specialized grouper, ...

Keywords: color, computer vision, content based retrieval, erotica/pornography, internet, object recognition

11 Qualitative Spatial Representation and Reasoning: An Overview
A. G. Cohn, S. M. Hazarika
January 2001 **Fundamenta Informaticae** , Volume 46 Issue 1-2
Publisher: IOS Press

Bibliometrics: Downloads (6 Weeks) n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

The paper is a overview of the major qualitative spatial representation and reasoning techniques. We survey t main aspects of the representation of qualitative knowledge including ontological aspects, topology, distance, orientation and shape. We also ...

Keywords: Ontology, Qualitative Spatial Reasoning

12 Modeling and Retrieval of Moving Objects
Mohammad Nabil, Anne H. H. Ngu, John Shepherd
January 2001 **Multimedia Tools and Applications** , Volume 13 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

This paper presents a symbolic formalism for modeling and retrieving video data via the moving objects conta in the video images. The model integrates the representations of individual moving objects in a scene with the varying relationships ...

Keywords: content-based image retrieval, moving objects model, multimedia retrieval, symbolic video model

13 Multimedia Document Models: Sealed Fate or Setting Out for New Shores?
Susanne Boll, Wolfgang Klas, Utz Westermann
August 2000 **Multimedia Tools and Applications** , Volume 11 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall) n/a, Citation Count

Existing multimedia document models like HTML, MHEG, SMIL, and HyTime lack appropriate modeling primitiv fit the needs of next generation multimedia applications which bring up requirements like reusability of multim content in different presentations ...

Keywords: HTML, HyTime, MHEG, SMIL, Z_YX, document models, multimedia document models, multimedia

14 Representing and Reasoning on Conceptual QueriesOver Image Databases
Mohand-Said Hacid
March 2000 **Journal of Intelligent Information Systems** , Volume 14 Issue 2-3
Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

The problem of content management of multimedia data types (e.g., image, video, graphics) is becoming increasingly important with the development of advanced multimedia applications. Traditional database management systems are inadequate for the handling ...

Keywords: content-based access of images, description logics, image databases, image representation, intell information retrieval, intentional reasoning, knowledge representation, query containment

15 Spreadsheets for images
Marc Levoy
July 1994 **SIGGRAPH '94**: Proceedings of the 21st annual conference on Computer graphics and interactive techniques

Publisher: ACM Request Permissions
Full text available: Pdf (938.95 KB), Ps (106.96 KB)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 53, Downloads (Overall): 537, Citation Count: 2

We describe a data visualization system based on spreadsheets. Cells in our spreadsheet contain graphical obj such as images, volumes, or movies. Cells may also contain widgets such as buttons, sliders, or curve editors. Objects are displayed in ...

Keywords: data visualization, flow charts, spreadsheets, user interfaces, visual programming languages

16 Customizing information capture and access
Daniela Rus, Devika Subramanian
January 1997 **Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Publisher: ACM Request Permissions
Full text available: Pdf (1.26 MB)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 47, Downloads (Overall): 629, Citation Count: 8

This article presents a customizable architecture for software agents that capture and access information in lai heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels ...

Keywords: information gathering, software agents, table recognition

17 XML query forms (XQForms): declarative specification of XML query interfaces
Michalis Petropoulos, Vasilis Vassalos, Yannis Papakonstantinou
April 2001 **WWW '01**: Proceedings of the 10th international conference on World Wide Web

Publisher: ACM
Full text available: Pdf (515.35 KB)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Downloads (Overall): 406, Citation Count: 8

Keywords: XML, XML query language, XSL, query forms & reports

18 What Do You Know about Mail?Knowledge Representation in the SINIX Consultant
Christel Kemke
June 2000 **Artificial Intelligence Review**, Volume 14 Issue 3

Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

The SINIX Consultant is an intelligent help system for the SINIX operating system which answers natural lang questions about SINIX concepts and commands and gives unsolicited advice to a user as well. In this paper th representation of

Keywords: Unix, help systems, intelligent user interfaces, natural language processing, tutoring, user modell

19 Knowledge Discovery in Grammatically Analysed Corpora
Sean Wallis, Gerald Nelson
October 2001 **Data Mining and Knowledge Discovery**, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Collections of grammatically annotated texts (corpora), and in particular, parsed corpora, present a challeng current methods of analysis. Such corpora are large and highly structured heterogeneous data sources. In this paper we briefly describe ...

Keywords: Text Corpora, cyclic knowledge discovery, grammar, linguistics, redescription, structured datasets

20 Mini-languages: a way to learn programming principles
Peter Brusilovsky, Eduardo Calabrese, Jozef Hvorecky, Anatoly Kouchnirenko, Philip Miller
January 1998 **Education and Information Technologies**, Volume 2 Issue 1

Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Mini-languages are a visually intuitive, simple and powerful way to introduce students to programming. They a good foundation for general computer science instruction, provide insight into programming for the general population, and teach algorithmic

Keywords: highereducation, informatics, languages, logo, programming, secondaryeducation

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